	Safety data sheet		
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1. THE NAME OF THE SUBSTANCE/PREPARATION AND THE COMPANY/COMPANY

TRADE NAME:	Positive photoresist developer	
Synonyms:	Sodium hydroxide	
Item number:	110175; 110176, 110177 Included in 110199	
Supplier:	Scan chemistry Hedåsvägen 1 S-187 36 Täby	
Phone:	08-7327900 & 070-5665775	
Telefax:	08-7325007	
Email:	scankemi@telia.com	
Contact person:	Styrbjörn Byström: scankemi@telia.com	
Telephone in case of emergency: Sweden: call: 112 - request Poison information		
EC no:	215-185-5 (for poison information)	
Gross formula:	NaOH (for poison information)	
CAS no:	1310-73-2 (for poison information)	

2. HAZARDOUS PROPERTIES

Causes serious corrosive damage to skin and eyes.

Classification according to Regulation (EC) 1272/2008 [CLP]

Skin corrosion (Category 1A)	H314
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Classification according to regulation 67/548/EEC or 1999/45/EC

Strongly corrosive R35

Labeling according to Regulation (EC) 1272/2008 [CLP]




Signal words: DANGER

Ingredient Sodium hydroxide EINECS: 215-185-5

Hazard statements

H314 Causes severe skin burns and eye damage.

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Precautionary statements

P102 **Keep** out of the reach of children.

P280 Use protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

P303+P361+P353 IF ON SKIN (including hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if possible. Continue rinsing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No	TSCA	EINECS - EC No	Slippery.
Sodium hydroxide	1310-73-2		215-185-5	(wt%) > 99
GHS/CLP	H314 Causes serious burns to skin and eyes.			
EEC	R35 , S26, S37/39, S45			

Mixtures

In the case of product, it is about a subject. In the case of a solution prepared for final use, it is a 1% solution

Ingredient Comment:SVHC list (Candidate List of Substances of Very High Concern for authorisation):
Contains nothing or less than 0.1% of the listed substances.

4. FIRST AID MEASURES

Inhalation (dust)

Immediately move the casualty to fresh air. Fresh air, warmth and rest. ATTENTION! The damage may be delayed. Keep the casualty under observation.

Ingestion

Rinse the mouth thoroughly and give plenty of milk/water provided the casualty is not unconscious. Immediate medical attention or transport to hospital. ATTENTION! Keep the casualty away from heat, sparks and open flames.

Skin contact

Remove contaminated clothing and flush skin with water. Contact a doctor if irritation persists after washing.

Splash in eyes

IMMEDIATELY flush eyes with plenty of water. Keep your eyelids wide apart. Continue rinsing for at least 15 minutes. Contact a doctor if the irritation persists.

Medical treatment and special treatment that may be required


Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing agents suitable for local conditions and surrounding environment.

Special hazards such as the substance Sodium oxides

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or the mixture may entail

Advice

for firefighting personnel

Use compressed air mask if necessary when fighting fires. The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

Cleaning methods

Use personal protective equipment. Avoid dust formation. Avoid inhalation of vapour/mist/gas. Ensure good ventilation Evacuate personnel to safe places. Avoid inhalation of dust.

Collect and dispose of without creating dust. Sweep up and shovel up. Store in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions during handling

Avoid dust and aerosol formation.
Arrange for suitable extraction where dust can form.

Precautions during storage

Store in a cool place. Keep the container tightly closed in a dry and ventilated place.

Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed in a dry and ventilated place.

Storage category

No task

8. LIMITATION OF EXPOSURE / PERSONAL PROTECTION

Ventilation

Respiratory protection

When risk assessment shows that air-purifying face protection is suitable, use full-covering face protection, particle filter type N100 (USA) or type P3 (EN 143) with cartridge as backup to machine control.

Hand protection

Handle with gloves. Gloves must be examined before use. Use appropriate glove removal techniques (without touching the outside of the glove) to avoid skin contact with this product.

Eye protection

Face shield and safety glasses. Use eye protection tested and approved according to current standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be examined before use. Use appropriate glove removal techniques (without touching the outside of the glove) to avoid skin contact with this product.

Occupational hygiene procedures

Thermal hazard

Wash and dry hands.
Develops heat when dissolved in water


9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Pearls

Color

White

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Smell	No data - dust can irritate the nose and throat.
Odor	No data
threshold	- 14
pH value pH value [1%]	13
Boiling point [°C]	1388 °C (solid)
Flash point [°C]	Not up to date
Ignition temperature [°C]	Not up to date
Lower explosion limit	Not up to date
Upper explosion limit	Not up to date
Oxidizing properties	Not up to date
Vapor pressure [kPa]	< 10-5 hPa vic 25 °C 2.13
Density [g/ml]	g/ cm3
Bulk density [kg/m³]	No data
Water Solubility	About 500 g/L
[log Pow]	No data
Viscosity	No data
Vapor density relative to air	1.38
Evaporation rate	No data
Melting point [°C]	318 °C
Self-ignition [°C]	Not up to date
Decomposition point [°C]	No data
Sum formula	NaOH

10. STABILITY AND REACTIVITY

Chemical stability	The product is stable. No spontaneous disintegration. Hygroscopic Reacts with aluminium, magnesium and zinc (hydrogen formation).
The risk of dangerous reactions	
Conditions to be avoided	For solid product: Avoid moist environment, strong oxidizing substances, strong acids, organic materials
Hazardous decomposition products	No data

11. TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Potential health effects	
Inhalation	May be harmful by inhalation. The substance is extremely harmful to the mucous membranes and upper respiratory tract.
Ingestion	May be dangerous if swallowed. Corrosive.
Skin	May be dangerous if absorbed through the skin. Causes caustic damage to the skin.
Eyes	Causes corrosive damage to the eyes.
Symptoms and signs of exposure	spasm, inflammation and edema of the trachea, spasm, inflammation and edema of the bronchi, pneumonia, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, vomiting. The substance is extremely harmful to tissues and mucous membranes and the upper respiratory tract, eyes and skin. Eyes - rabbit - Serious eye irritation - 24 h
Serious eye damage/ eye irritation	

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Corrosive/irritating to the skin

Skin - rabbit - Strongly corrosive. - 24 h

Respiratory/skin sensitization

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Mutagenicity (IUCRID)No evidence of mutagenicity in *in vitro* and *in vivo* studies.**Reproductive toxicity**

Product not systemically available. Thus no risk of reproductive harm.

Carcinogenicity

No constituents at levels greater than or equal to 0.1% in this product have been identified as probable, possible or confirmed human carcinogens by the IARC.

Health hazard information**12. ECOLOGICAL INFORMATION****Toxicity**

Fish toxicity

LC50 - *Gambusia affinis* - 125 mg/l - 96 h

Toxicity to Daphnia and other aquatic invertebrates

Immobilization EC50 - Daphnia - 40.38 mg/l - 48 h


Effects on the environment**Biodegradability****Bioaccumulative potential** no data available**Mobility in soil** no data available**Results of the PBT and vPvB****assessment****Other harmful effects**

Dangerous for aquatic organisms.

13. WASTE DISPOSAL**Waste treatment methods** Coordinate waste management with the national authorities.**Product**

Dispose of as hazardous waste.

Waste**code (recommended)****Contaminated packaging** Dispose of as unused product.

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14. TRANSPORT INFORMATION

Transport label



UN number

ADR
1823

IMDG
1823

IATA
1823

Shipping name

Sodium hydroxide, solid
8

Sodium hydroxide, solid 8

Sodium hydroxide, solid 8

Hazard class for transport

II

II

II

Packaging group

No

no

no

Environmental hazards

Special

No data

No data

No data

precautions for users

15. APPLICABLE REGULATIONS

Safety, health and environmental regulations/legislation on the substance or mixture

EEC regulations

No data

Transport regulations

No data

National regulations (SE)

No data

16. OTHER INFORMATION

Labeling according to regulation 67/548/EEC or 1999/45/EC



Corrosive

Risk phrases

R35 Strongly corrosive.

Safety phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 Use suitable protective gloves and safety glasses or face shield.

S45 In case of accident, nausea or other effects, contact a doctor immediately. If possible, show the label.

The information is based on our current knowledge. However, they do not represent any guarantee regarding product characteristics and do not constitute a basis for an agreed legal relationship.